SCHEMATIC DIAGRAMS

MOD'S

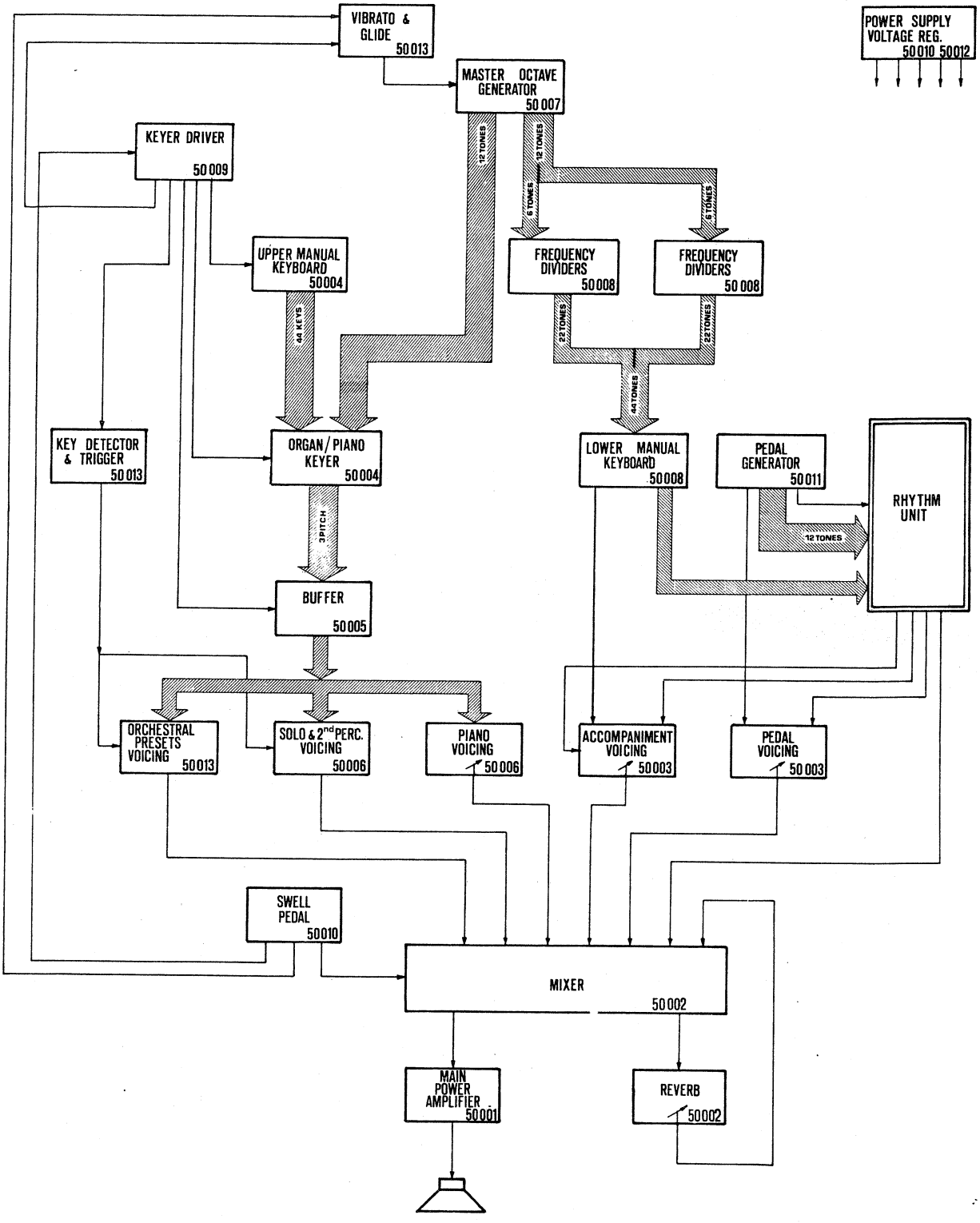
wizard 327 & 328

ELECTRONIC ORGANS

GEM® A PRODUCT OF general electro music

MONDAINO · FO · ITALY

W327/328



ISSUED	DATE	BY
DRAWN	13-5-80	
CKD	13-5-80	
APPRVD		
N°. 50015		
REPLACED BY		
REPLACING		

USED ON:

DDR MONDAINO (FO)

SCHEMATIC DIAGRAM:
BLOCK DIAGRAM

NOTES:

ISSUED	DATE	BY
DRAWN		
CKD		
APPRVD		

N 50 032

REPLACED BY

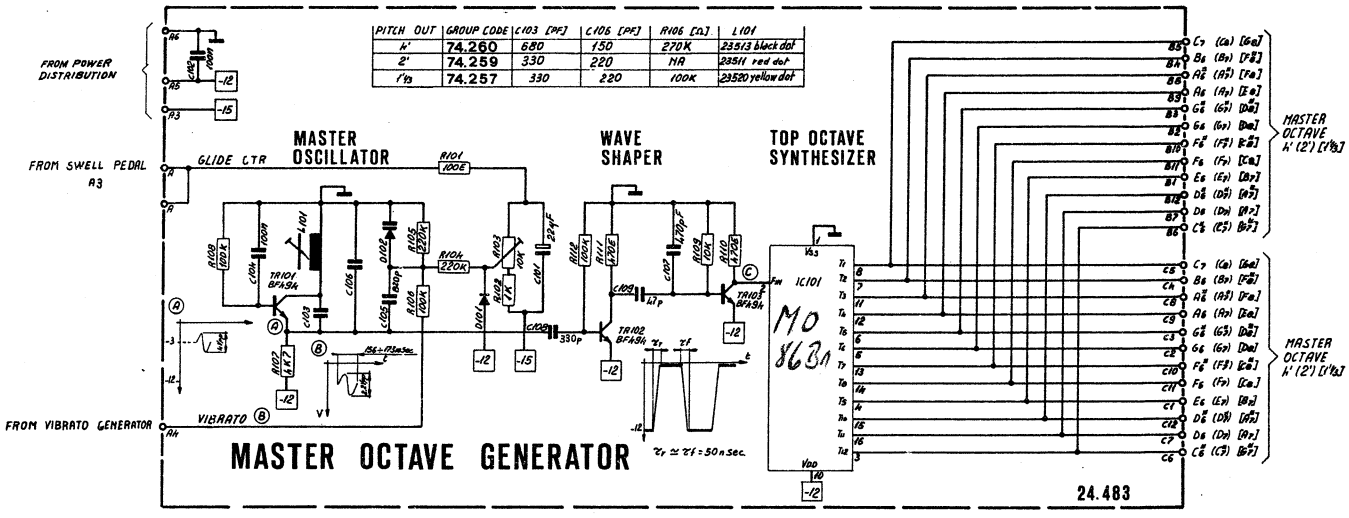
REPLACING

USED ON:

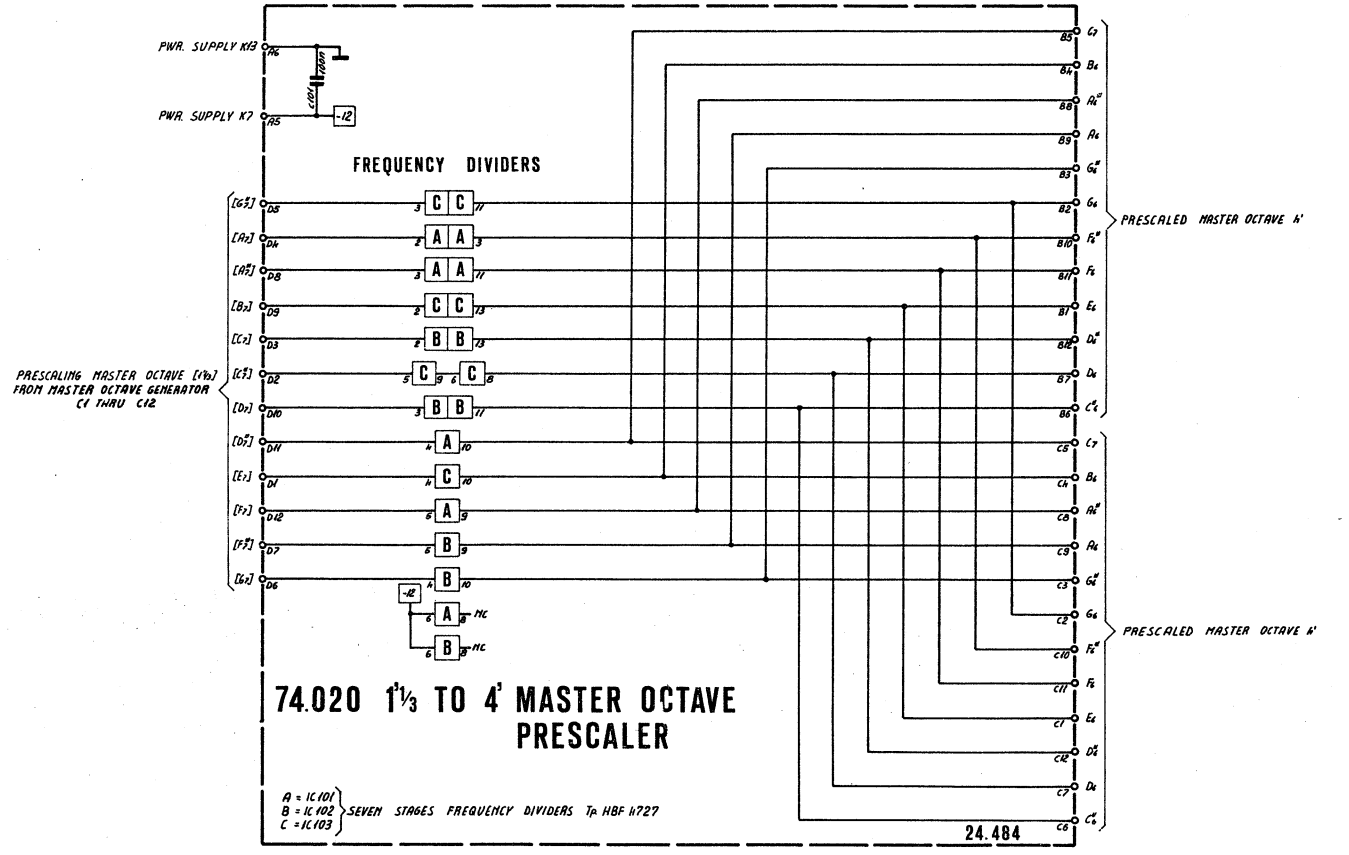
DDR MONDAINO (FO)

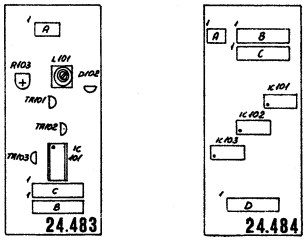
SCHEMATIC DIAGRAM:

NOTES



PITCH OUT	GROUP CODE	C103 [PF]	C106 [PF]	R106 [Ω]	L101
4'	74.260	680	150	270K	23513 black dot
2'	74.259	330	220	MR	23511 red dot
1'⅓	74.257	330	220	100K	23520 yellow dot


PWR. SUPPLY K13
PWR. SUPPLY K7
FREQUENCY DIVIDERS
PRESCALING MASTER OCTAVE [4'⅓] FROM MASTER OCTAVE GENERATOR C1 THRU C12
PRESCALED MASTER OCTAVE 4'
PRESCALED MASTER OCTAVE 4'
74.020 1'⅓ TO 4' MASTER OCTAVE PRESCALER
A = IC101
B = IC102
C = IC103
SEVEN STAGES FREQUENCY DIVIDERS Tp HBF 4727
24.484



NOTES: 1) ALL RESISTORS ¼ W UNLESS OTHERWISE SPECIFIED
2) ALL REPORTED WAVEFORMS AS WIEVED WITH 10 MHz SCOPE WITH LOW CAPACITANCE PROBE

ISSUED	DATE	BY
DRAWN	65.80	
CKD	65.80	
APPRVD		

USED ON:

DDR MONDAINO (FO)

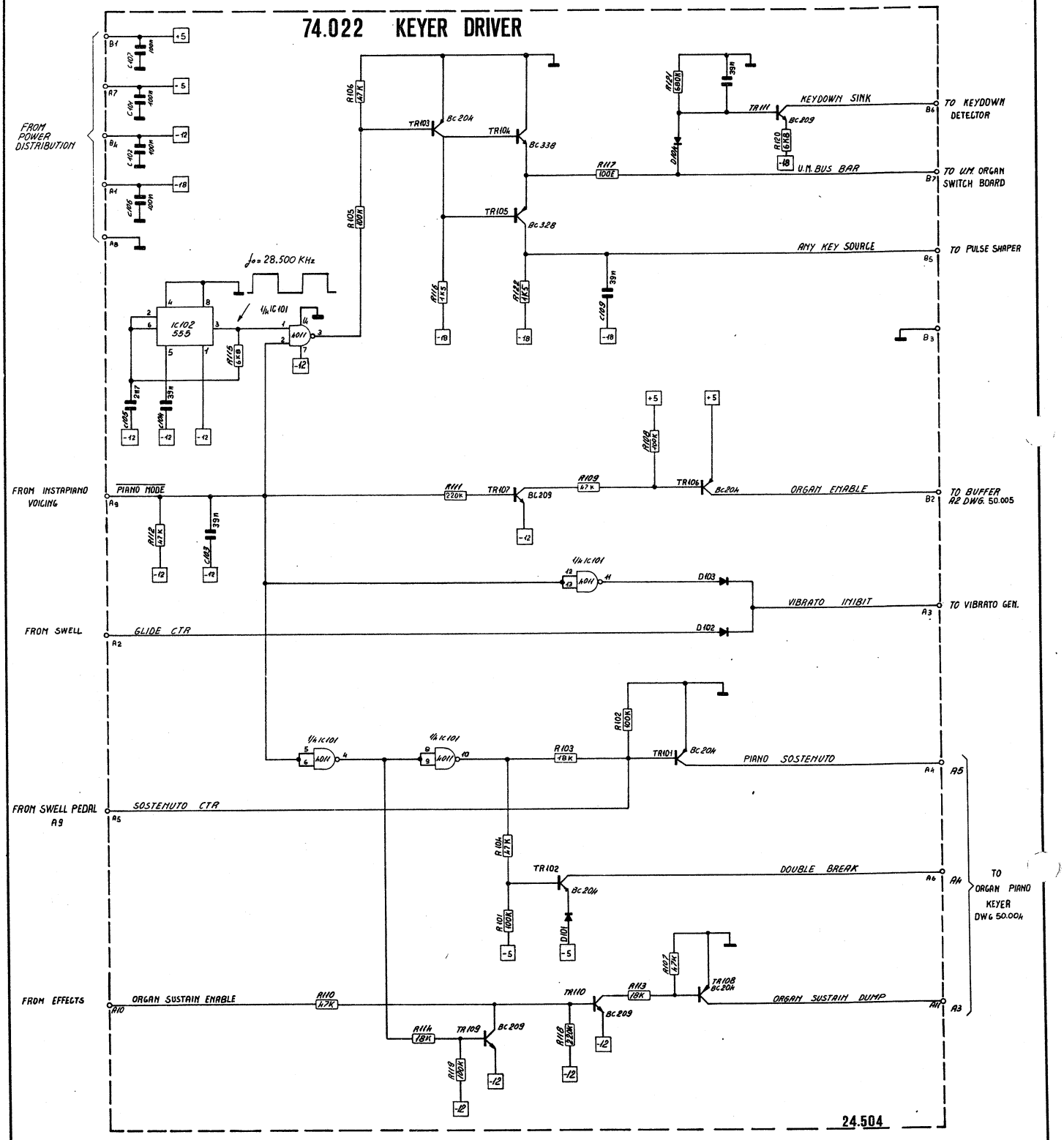
N°. 50 007

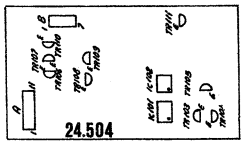
REPLACED BY

REPLACING

SCHEMATIC DIAGRAM: MASTER OCTAVE GENERATOR & 1'⅓ TO 4' MASTER OCTAVE PESCALER

74.022 KEYER DRIVER





NOTES
1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND WITHOUT SIGNAL

ISSUED	DATE	BY
DRAWN	6/5/80	
CKD	6/5/80	
APPRVD		

USED ON:

DDR MONDAINO (FO)

Nº. 50.009

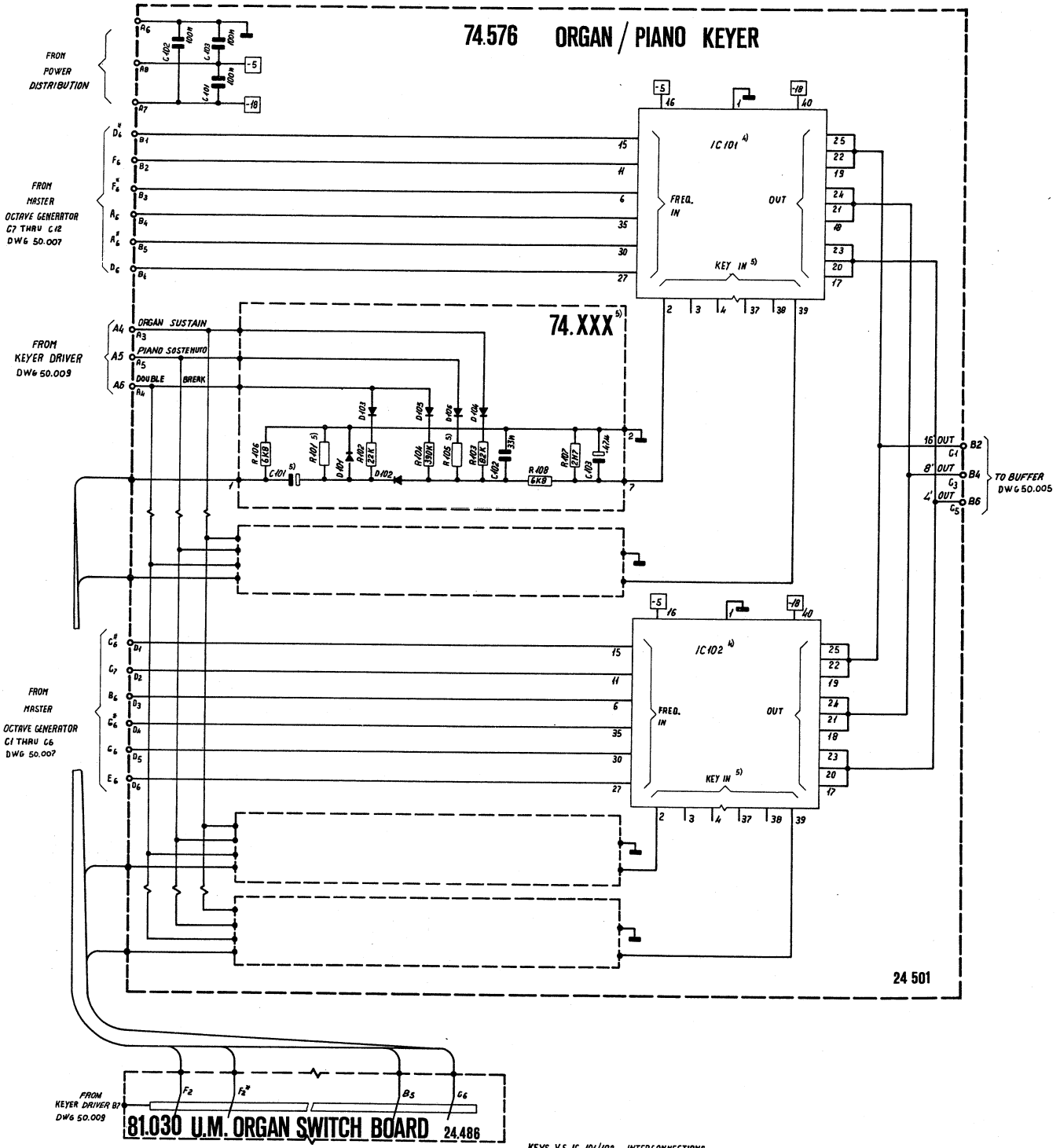
REPLACED BY

REPLACING

SCHEMATIC DIAGRAM:

KEYER DRIVER

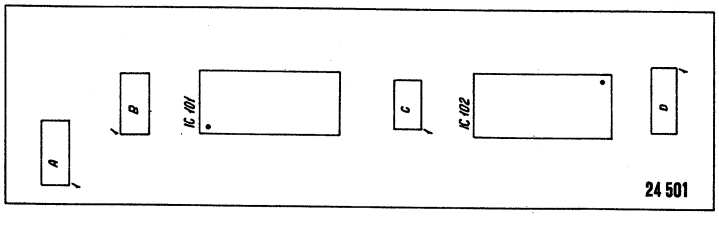
74.576 ORGAN / PIANO KEYER



KEYS V.S. IC 101/102 INTERCONNECTIONS

KEY	F2	F2#	G2	G2#	A2	A2#	B2	C3	C3#	D3	D3#	E3	F3	F3#	G3	G3#	A3	A3#	B3	C4	C4#	D4	D4#	E4	F4	F4#	G4	G4#	A4	A4#	B4	C5	D5	D5#	E6	F5	F5#	G6	G6#	A5	A5#	B5	C6
IC101 PIN	7	2			39	34				26	12		8	3			38	33				28	13		9	4			37	32				29	14		10	5			36	31		
IC102 PIN			34	39			2	7	12			26			33	38			3	8	13			28			32	37			4	9	14			29			31	36			5	10

C101	10 µ	6.8	4 µ7
R101	330K	680K	1M
R105	330K	220K	220K
PART CODE	74 573	74 574	74 575



NOTES: 1) ALL RESISTOR 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND
4) CUSTOM DEVICE
5) SEE UNDER HEARTH TABLE

ISSUED	DATE	BY
DRAWN	5-5-80	
CKD	5.5.80	
APPRVD		

USED ON:

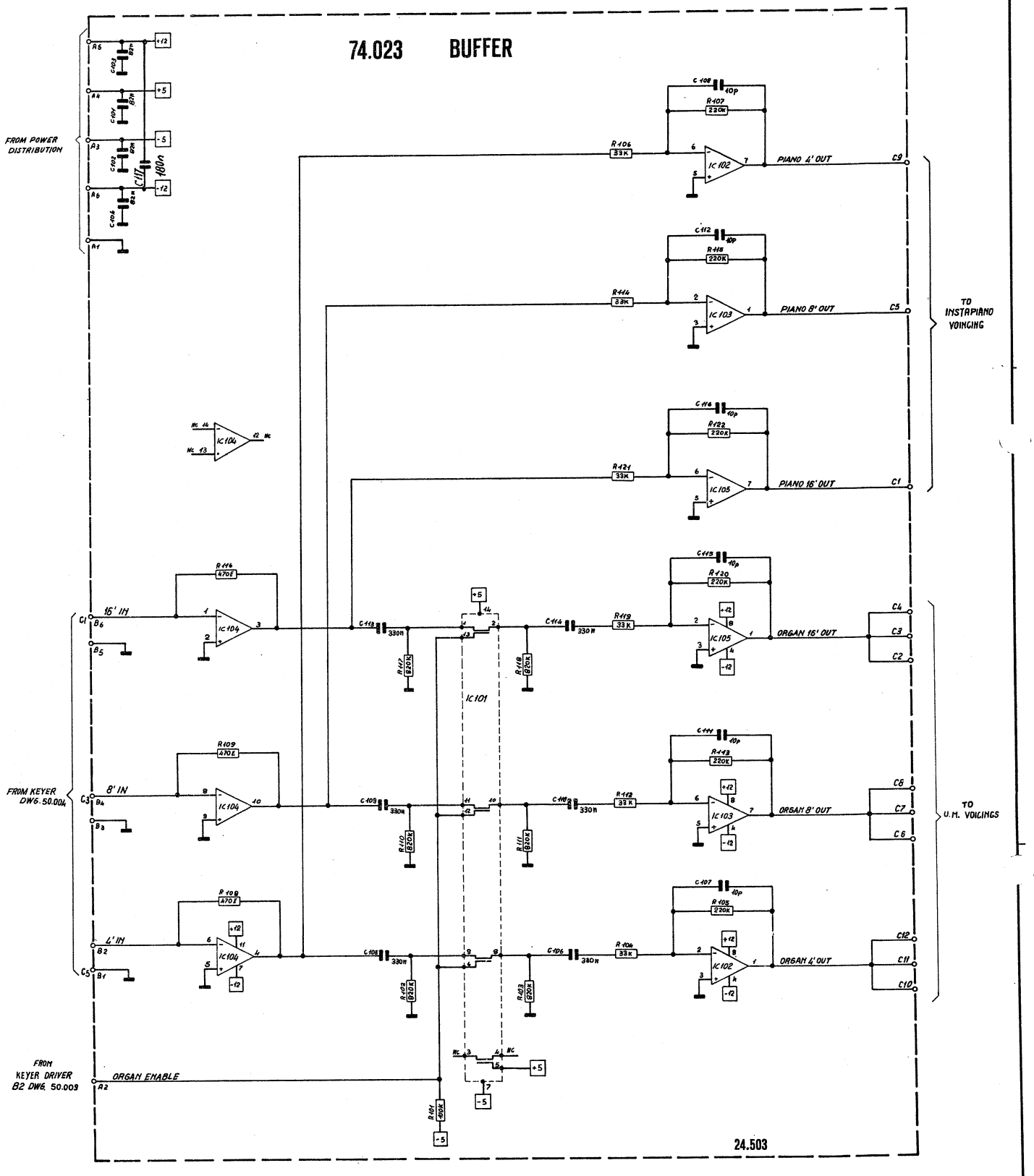
DDR MONDAINO (FO)

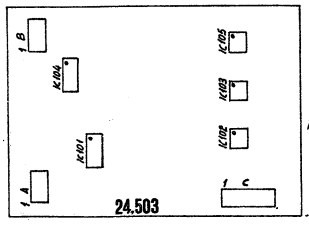
N°. 50.004

REPLACED BY

REPLACING

SCHEMATIC DIAGRAM: ORGAN / PIANO KEYER





NOTES: 1) ALL RESISTORS ¼ W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND WITHOUT SIGNAL

REV.	SUBJECT	DATE	CKD
ISSUED	DATE 6-5-80	BY	USED ON:
DRAWN	6-5-80		
CKD	6-5-80		
APPRVD			

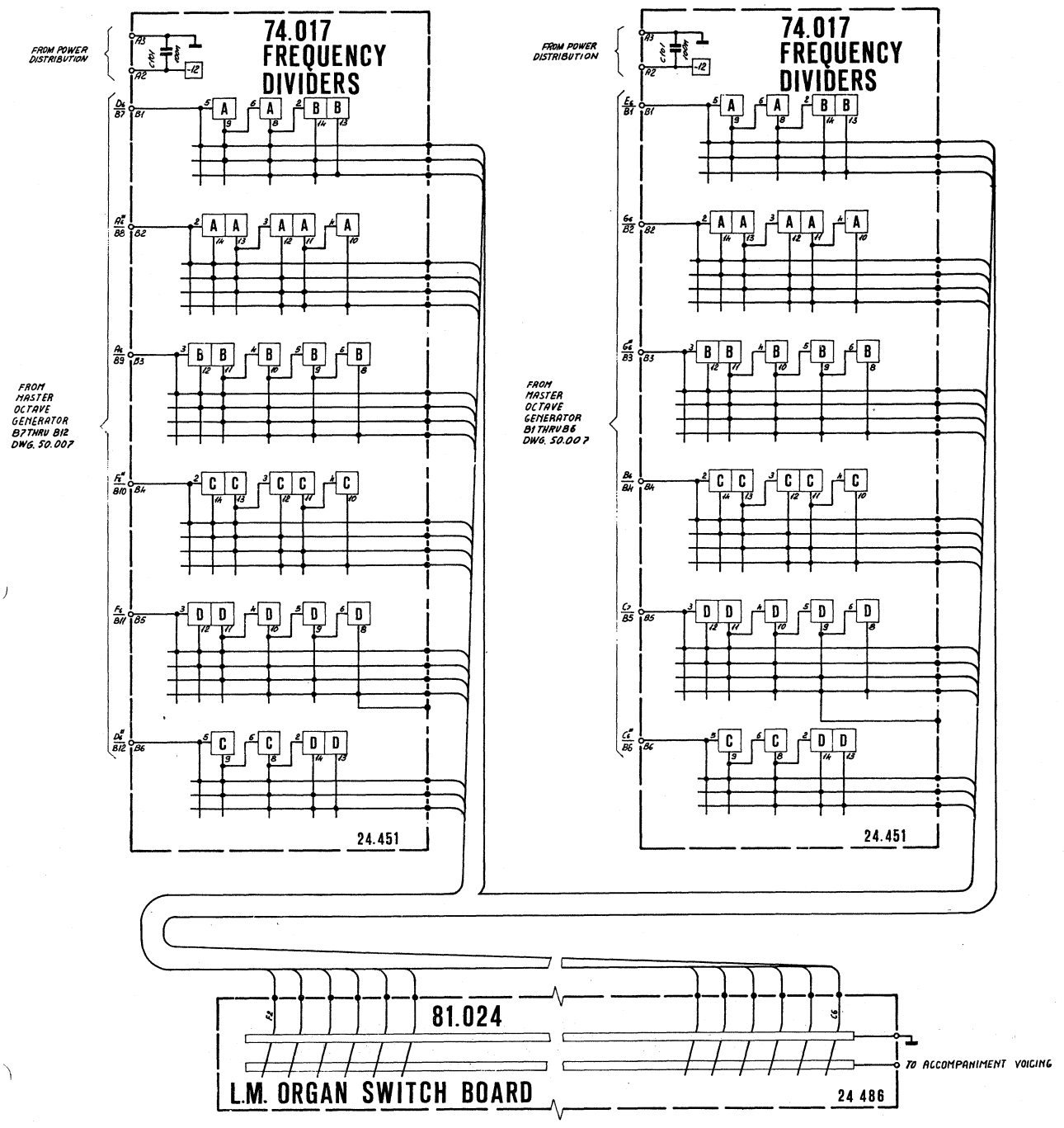
DDR MONDAINO (FO)

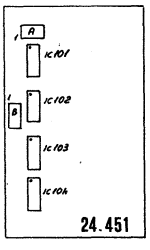
Nº. 50.005

REPLACED DY

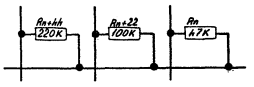
REPLACING

SCHEMATIC DIAGRAM: BUFFER





NOTES: 1) IS EQ. TO



2) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
3) A, B, C, D ARE SEVEN STAGES FREQUENCY DIVIDERS Tp HBF 4727

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	6.5.80		
CKD	6.5.80		
APPRVD			

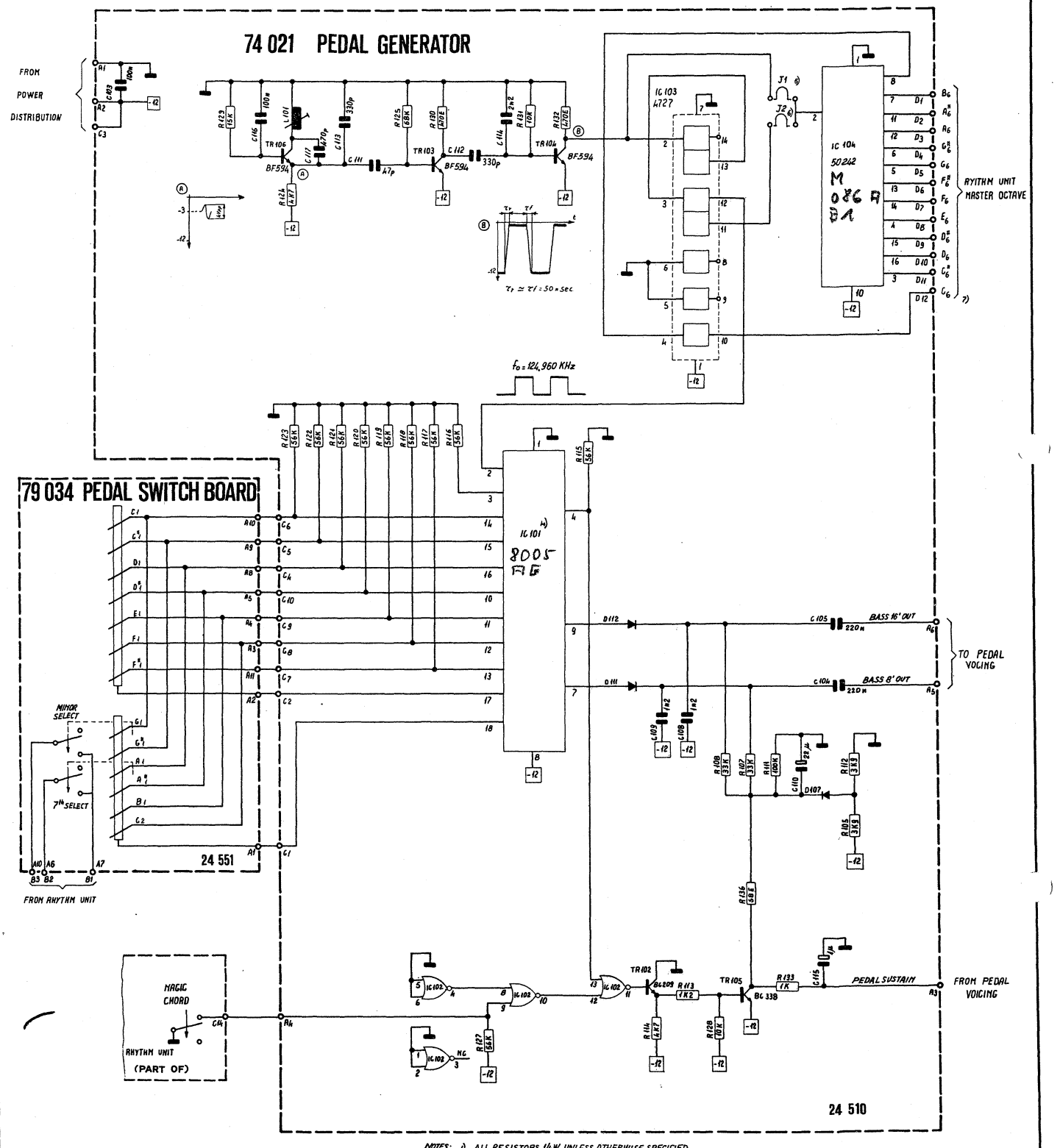
DDR MONDAINO (FO)

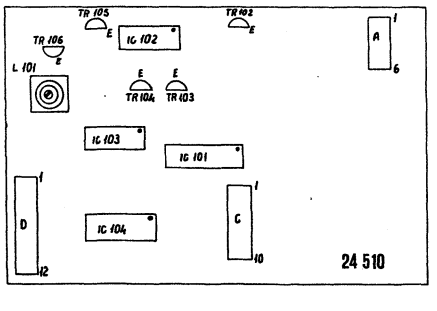
Nr. 50.008

SCHEMATIC DIAGRAM:
LOWER MANUAL GENERATOR

REPLACED DY

REPLACING





NOTES:
1) ALL RESISTORS 1/4W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V METER WITHOUT SIGNAL WITH RESPECT TO GND
4) IC 101 = CUSTOM DEVICE
5) J1 = JUMPER 1 PRESETS PERFORMER II MASTER OCT.
6) J2 = JUMPER 2 PRESETS BIG BAND MASTER OCT.
7) C_x THRU B_x ; SUBSCRIPT REFER TO CORRECT OCTAVE LOCATION:
PERFORMER II x = 6 (J1 SEL.)
BIG BAND x = 2 (J2 SEL.)

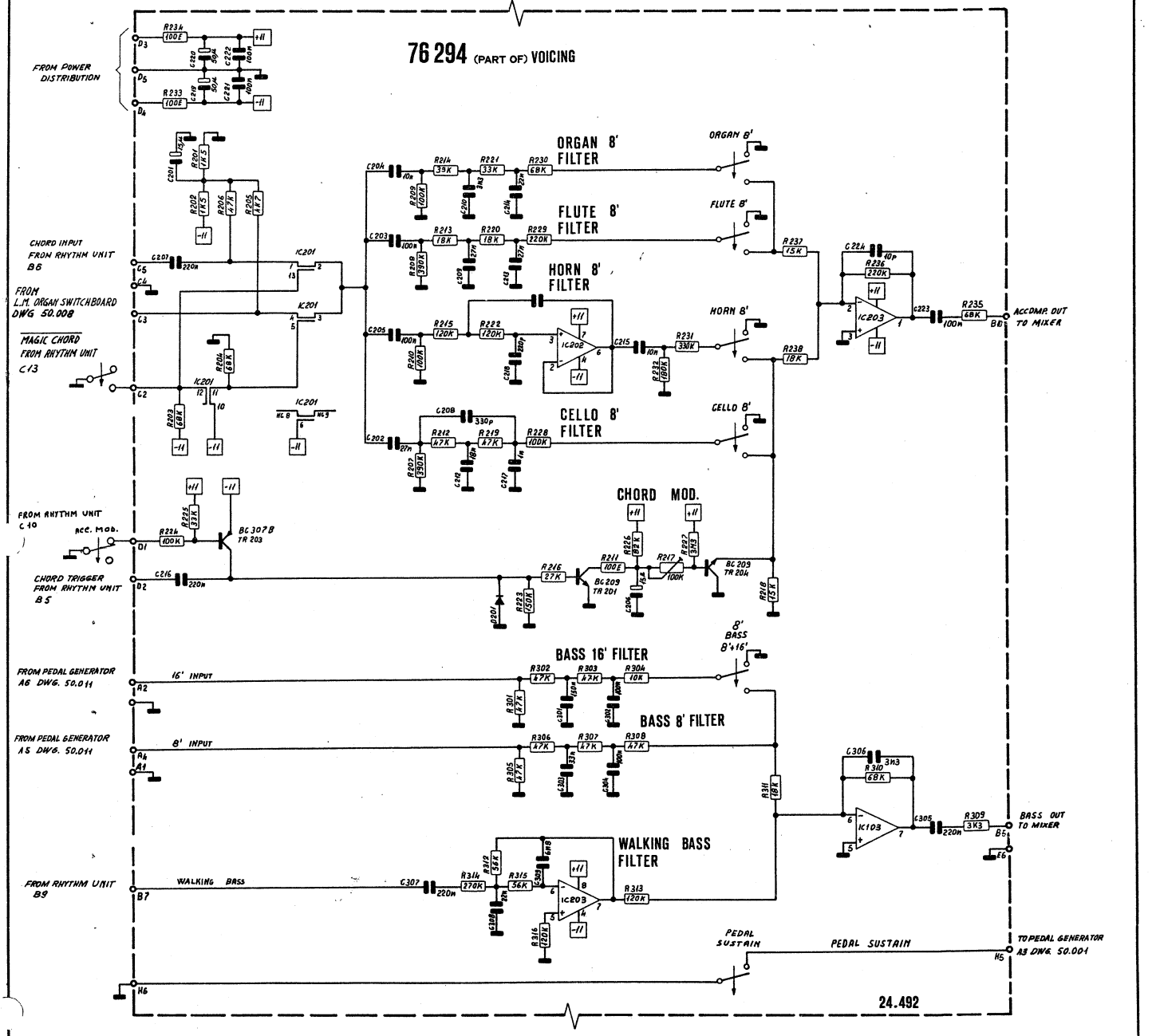
ISSUED	DATE	BY
DRAWN	13-5-80	
CKD	13-5-80	
APPRVD		

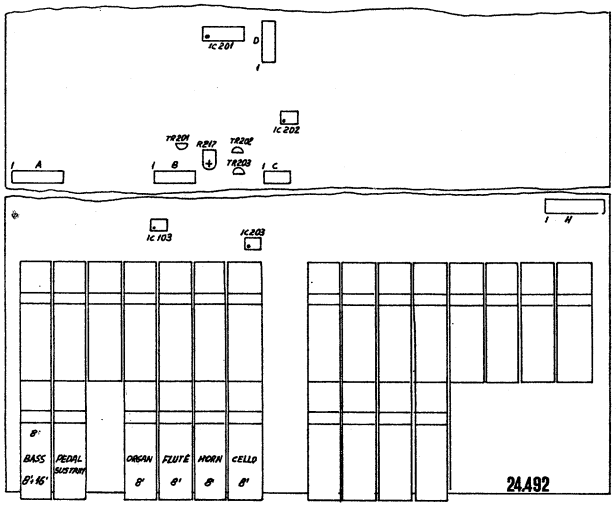
N°. 50011
REPLACED BY
REPLACING

USED ON:

DDR MONDAINO (FO)

SCHEMATIC DIAGRAM:
PEDAL GENERATOR





NOTES: 1) ALL RESISTORS 1/4W UNLESS OTHERWISE
2) ALL VOLTAGES MEASURED WITH 20.000 Ohm/V VOLTMETER WITH RESPECT TO GND WITHOUT SIGNAL

ISSUED	DATE	BY
DRAWN	5.5.80	Marmon
CKD	5.5.80	Villemain
APPRVD		

USED ON:

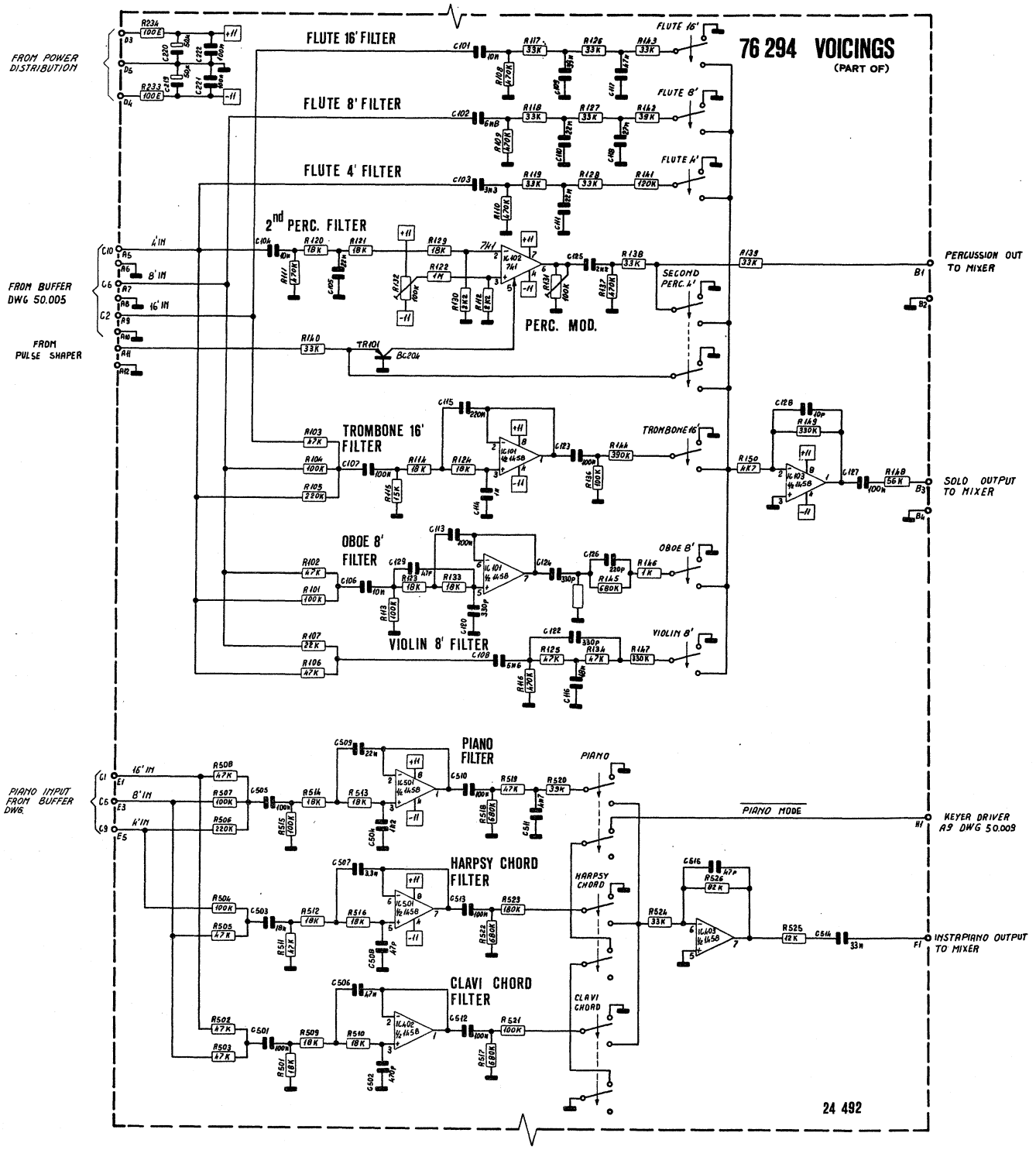
DDR MONDAINO (FO)

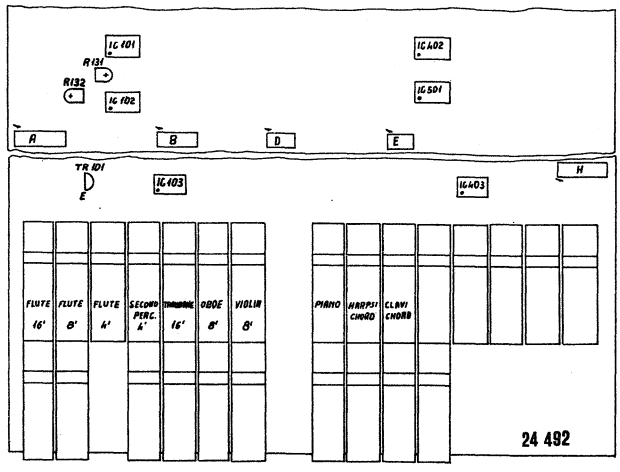
Nº. 50.003

REPLACED BY

REPLACING

SCHEMATIC DIAGRAM: ACCOMPANIMENT & PEDAL VOICING





NOTES: 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20000 OHM/V METER WITHOUT SIGNAL WITH RESPECT TO GND

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	13-5-80		
CKD	13-5-80		
APPRVD			

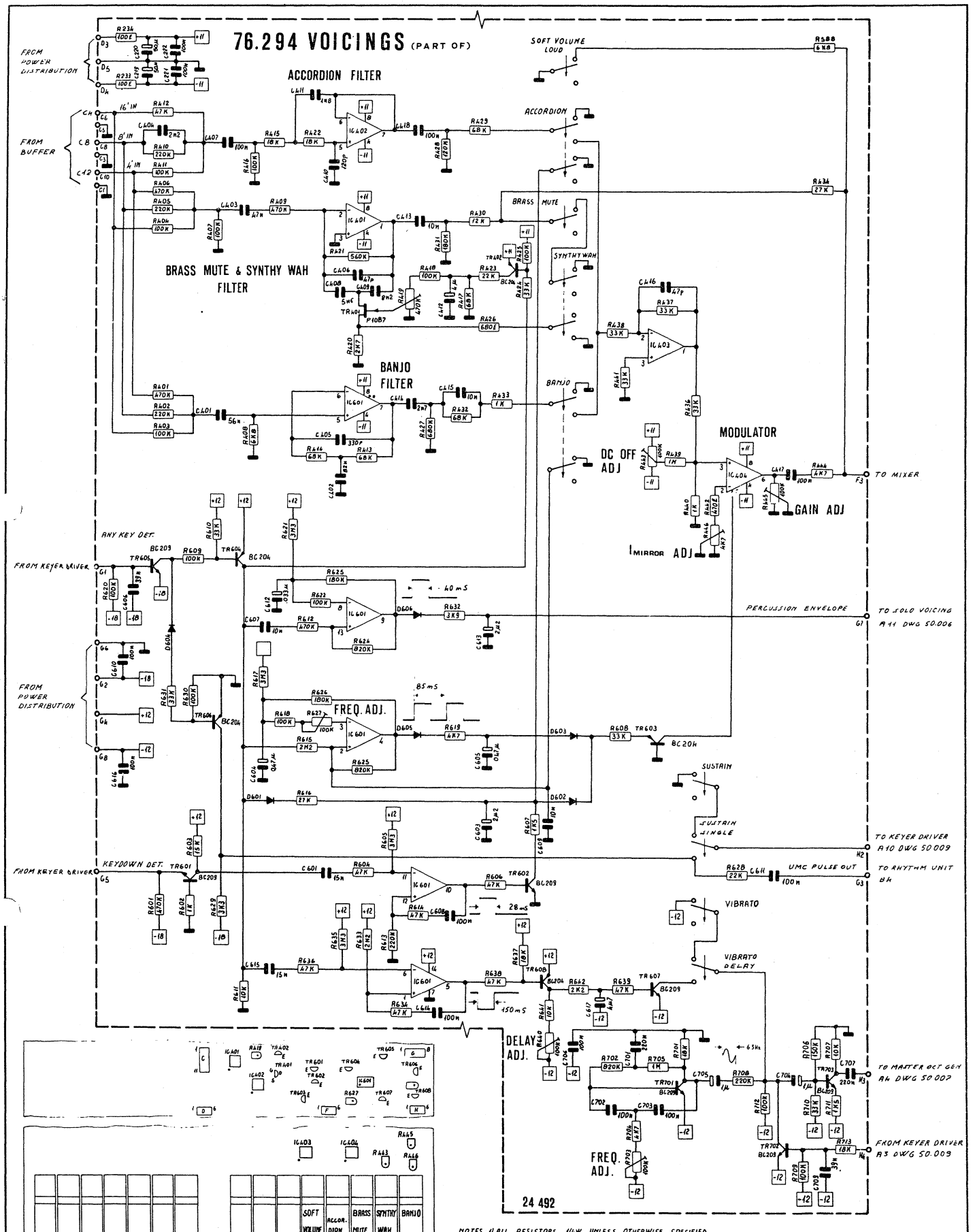
DDR MONDAINO (FO)

Nº. 50 006

REPLACED DY

REPLACING

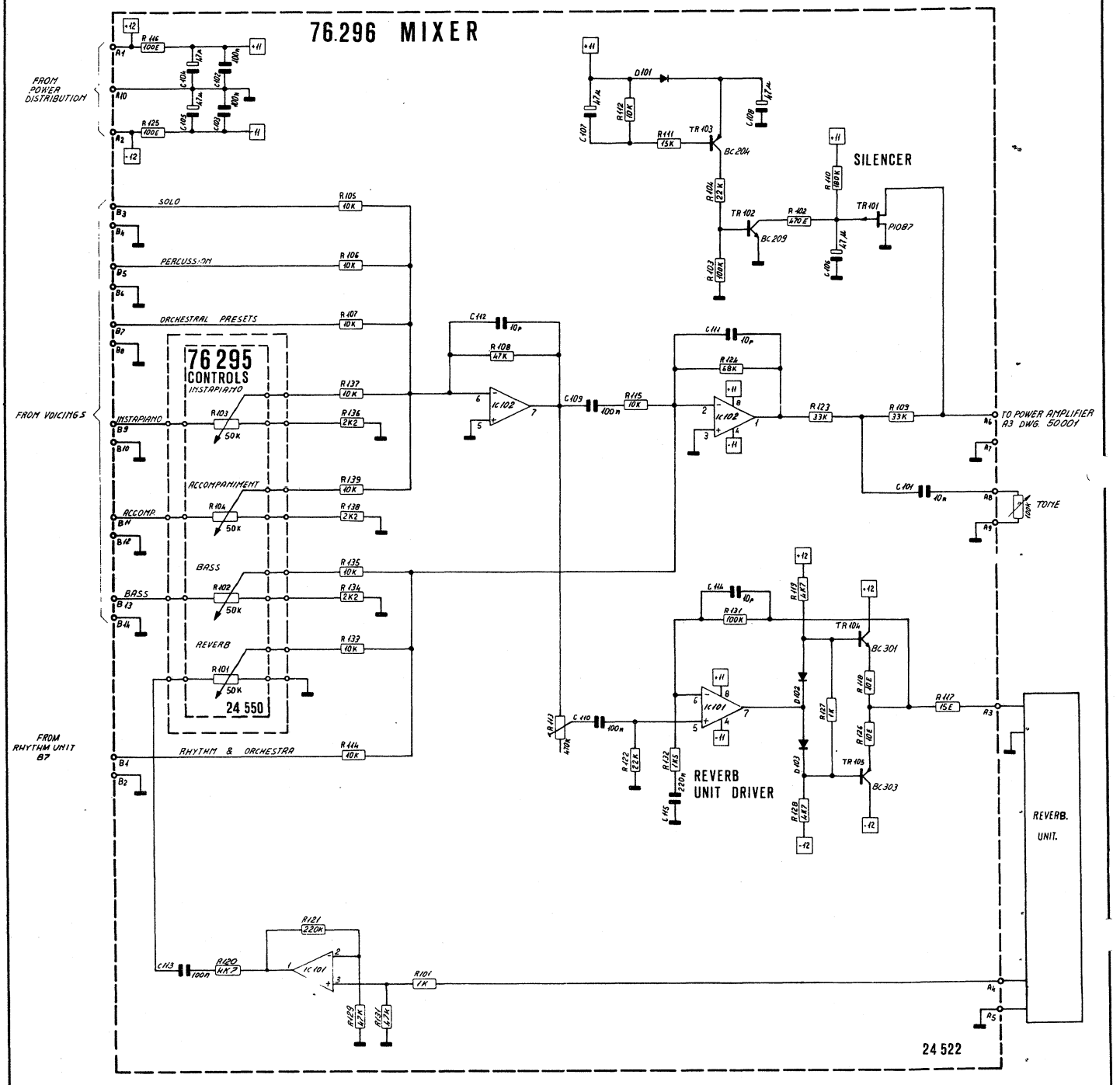
SCHEMATIC DIAGRAM:
SOLO & PIANO VOICING

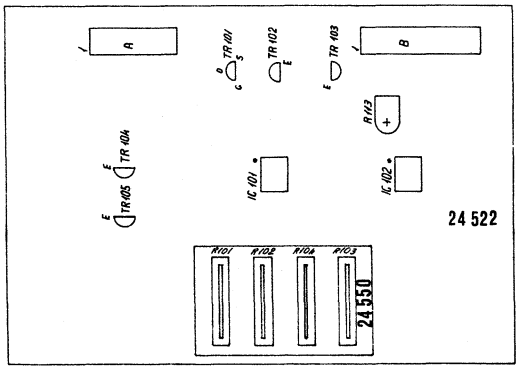


NOTES: 1) ALL RESISTORS 1/4W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

ISSUED	DATE	BY	USED ON:
DRAWN	13.5.80		
CKD	13.5.80		
APPRVD			
N°. 50.013			SCHEMATIC DIAGRAM: ORCHESTRAL VOICINGS & PULSE SHAPER
REPLACED BY			
REPLACING			

DDR MONDAINO (FO)





NOTES:
1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V. VOLTMETER WITH RESPECT TO GND WITHOUT SIGNAL

ISSUED	DATE	BY	USED ON:
DRAWN	5.5.81		
CKD	5.5.81		
APPRVD			

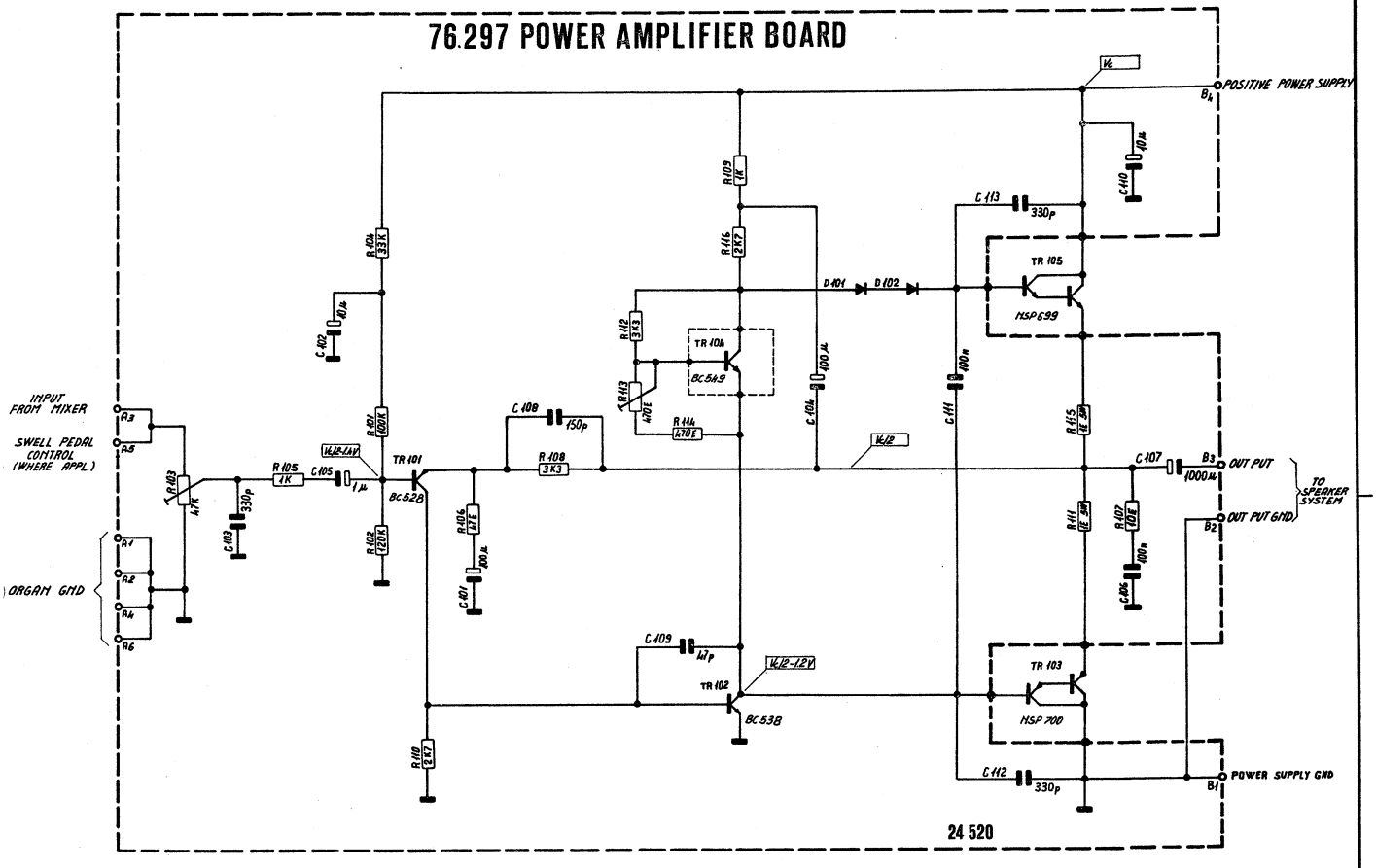
DDR MONDAINO (FO)

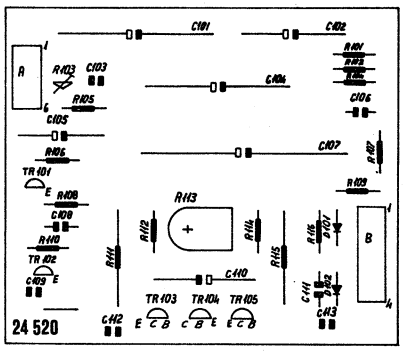
N°: 50.002

REPLACED DY

REPLACING

SCHEMATIC DIAGRAM: MIXER, CONTROLS & REVERB





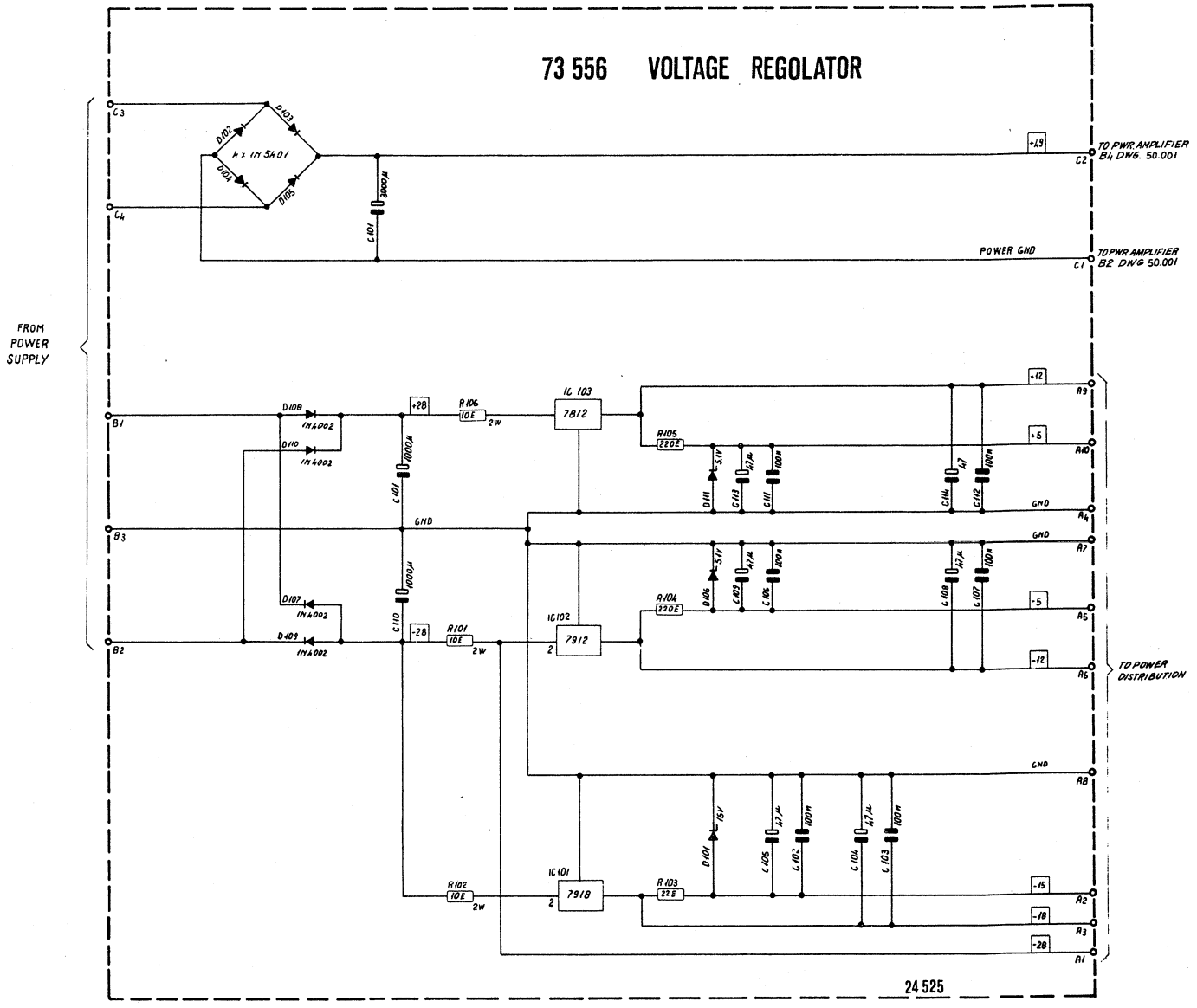
NOTES: 1) ALL RESISTOR ½ W UNLESS OTHERWISE SPECIFIED

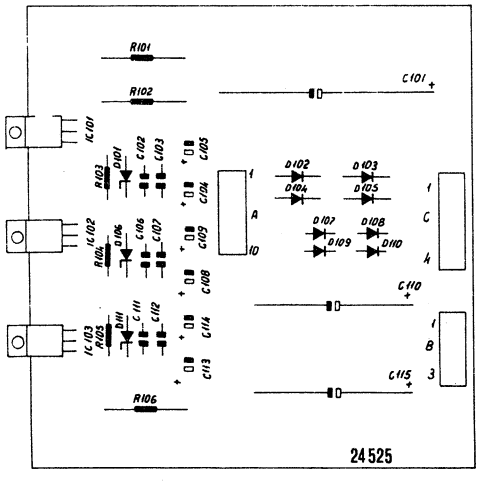
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND WITHOUT SIGNAL

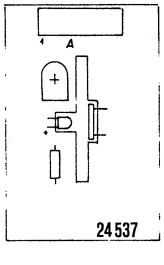
3) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED

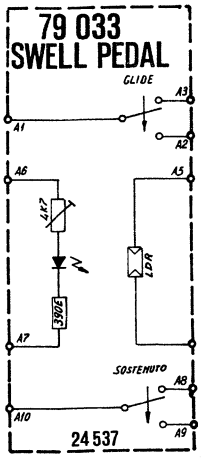
ISSUED	DATE	BY	USED ON:	DDR MONDAINO (FO)
DRAWN	5-5-80			
CKD	5-5-80			
APPRVD				
N°. 50.001			SCHEMATIC DIAGRAM:	
REPLACED DY			73.028 POWER AMPLIFIER	
REPLACING				

73 556 VOLTAGE REGOLATOR









NOTES: 1) ALL RESISTORS ARE ½ W ± 10% UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

ISSUED	DATE	BY
DRAWN	13·5·80	
CKD	13·5·80	
APPRVD		

USED ON:-

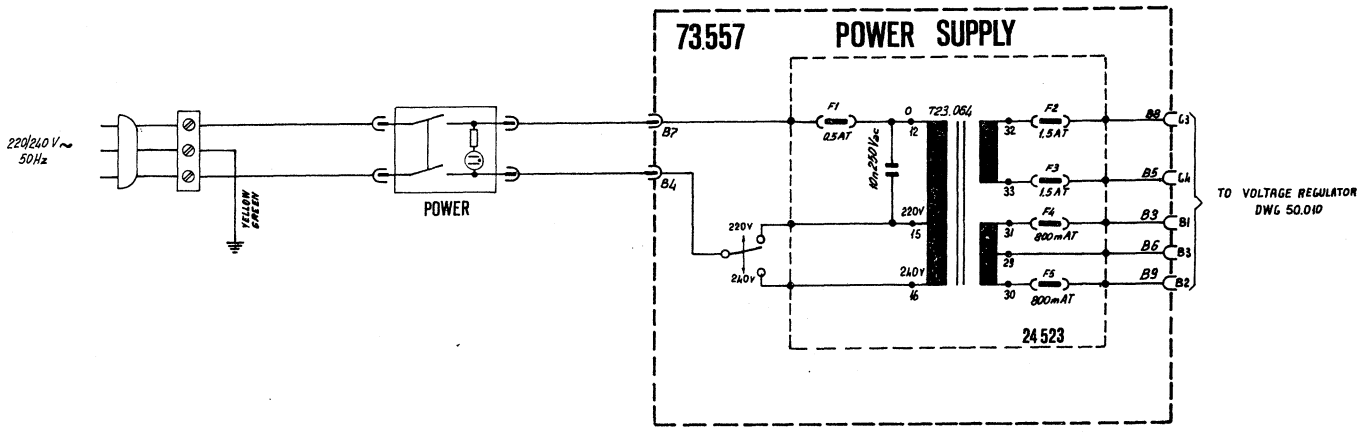
DDR MONDAINO (FO)

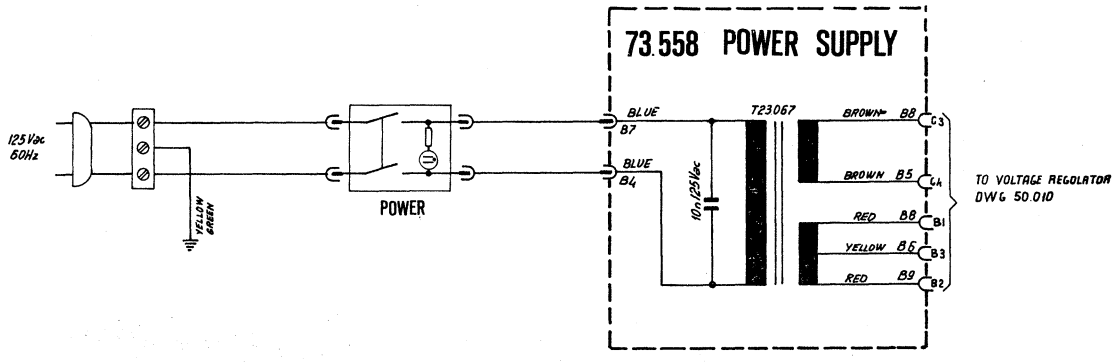
N°: 50 010

REPLACED BY

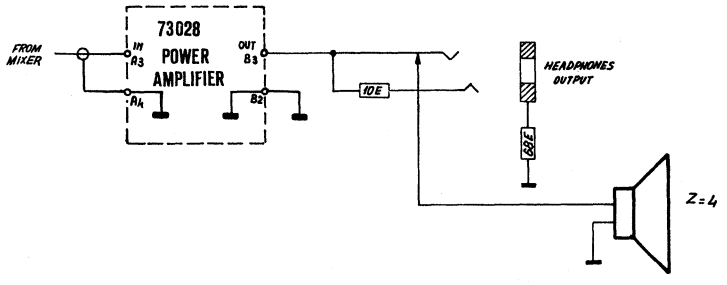
REPLACING

SCHEMATIC DIAGRAM:
VOLTAGE REGULATOR & SWELL PEDAL





SPEAKER SYSTEM



ISSUED	DATE	BY	USED ON:	DDR MONDAINO (FO)
DRAWN	13-5-80			
CKD	15-5-80			
APPRVD				
N°. 50 012			SCHEMATIC DIAGRAM: POWER SUPPLY & SPEAKER SYSTEM	
REPLACED DY				
REPLACING				

INDEX

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4	50.009	KEYER DRIVER	24.504	74.022		
5	50.004	ORGAN/PIANO KEYER	24.501	74.576		
		keyer timing	24.502	74.573		
		" "	24.502	74.574		
		" "	24.502	74.575		
		U.M. ORGAN SWITCHBOARD	24.486	81.030		
6	50.005	BUFFER	24.503	74.023		
7	50.008	LM GENERATOR				
		frequency dividers	24.451	74.017		
		l.m. organ switchboard	24.486	81.024		
8	50.011	PEDAL GENERATOR				
		pedal generator & rhythm				
		master octave generator	24.510	74.021		
		pedal switchboard	24.551	79.034		
9	50.003	ACCOMPANIMENT & PEDAL VOICING	24.492	76.294		
10	50.006	SOLO & PIANO VOICING	24.492	76.294		
11	50.013	ORCHESTRAL VOICING & PULSE SHAPER	24.492	76.294		
12	50.002	MIXER & REVERB.	24.522	76.296		
		CONTROLS	24.550	76.295		
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14	50.010	VOLTAGE REGULATOR	24.525	73.556		
		SWELL PEDAL		79.033		
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15	50.012	POWER SUPPLY (220÷240 V~)		73.557		
		fuseholder board	24.523	76.298		
		POWER SUPPLY (125 Vac)		73.558		
		SPEAKER SYSTEM				

ISSUED	DATE	BY
DRAWN		
CKD		
APPRVD		

N 50 034

REPLACED BY

REPLACING

USED ON:

DDR MONDAINO (FO)

SCHEMATIC DIAGRAM:

MASTER INDEX